	Application No.	Applicant(s)	
Notice of Allowability	09/701,226	FUKUSHIMA, SHINJI	
	Examiner	Art Unit	
	Pedro J. Cuevas	2834	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31 1. This communication is responsive to amendment filled or 2. The allowed claim(s) is/are 1-5.	S (OR REMAINS) CLOSED (5) or other appropriate comn RIGHTS. This application is 13 and MPEP 1308.	in this application. If not included nunication will be mailed in due course. I subject to withdrawal from issue at the i	nitiative
<ul> <li>3.  The drawings filed on 16 September 2003 are accepted the september 2001 are accepted the september 2001 are accepted to the september 2001 are accepted to the september 2003 are</li></ul>		or (f).	
1. Certified copies of the priority documents have	ve been received.		
2. Certified copies of the priority documents have	ve been received in Applicat	on No	
3.  Copies of the certified copies of the priority d International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  5.  Acknowledgment is made of a claim for domestic priority (a)  The translation of the foreign language provisional 6.  Acknowledgment is made of a claim for domestic priority  Applicant has THREE MONTHS FROM THE "MAILING DATE" of the below. Failure to timely comply will result in ABANDONMENT of the substitute of the proposed drawing the proposed drawin	under 35 U.S.C. § 119(e) (to application has been receiv under 35 U.S.C. §§ 120 and of this communication to file of this application. THIS TH omitted. Note the attached E ason(s) why the oath or deci-	a provisional application). ed. /or 121. a reply complying with the requirements REE-MONTH PERIOD IS NOT EXTEND  XAMINER'S AMENDMENT or NOTICE of aration is deficient.  ew ( PTO-948) attached	noted <b>DABLE</b> OF
(c) including changes required by the attached Examine Identifying indicia such as the application number (see 37 CFR each sheet.	er's Amendment / Comment	or in the Office action of Paper No	<b>⊸</b> ·
9. DEPOSIT OF and/or INFORMATION about the dep attached Examiner's comment regarding REQUIREMENT FOR			
Attachment(s)			
<ul> <li>1 ☐ Notice of References Cited (PTO-892)</li> <li>3 ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>5 ☐ Information Disclosure Statements (PTO-1449), Paper No.</li> <li>7 ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>	4∏ Intervi 6∏ Exami	of Informal Patent Application (PTO-152 ew Summary (PTO-413), Paper No ner's Amendment/Comment ner's Statement of Reasons for Allowand	_•

Application/Control Number: 09/701,226 Page 2

Art Unit: 2834

## **DETAILED ACTION**

## Allowable Subject Matter

1. Claims 1-5 are allowed.

2. The following is an examiner's statement of reasons for allowance.

Harrison et al. clearly teaches the construction of a brushless motor comprising:

a rotor with a permanent magnet having P (P is an integer not less than two)

polarities, the permanent magnet polarities having a polarity angle; and

a stator facing said rotor and having a plurality of coils.

Welterlin teaches a brushless motor, wherein:

any one of the coils has isosceles sides interlinking with magnetic field generated by the polarities extension lines of the isosceles sides extending through centers of winding-bundles of the coil, crossing each other at a shaft center having a vertex angle of 360/P degree, the vertex angle being equal to the polarity angle of 360/P degrees based on the permanent magnet;

the coil winding bundles forming the isosceles sides are disposed within an area covered by an angle of 360/(4 X P) degree both inside and outside with respect to a center of the angle of 360/P degree, and

the coils adjacent to each other are spaced out at intervals of (360/P) x (5/3) degree for the purpose of obtaining a brushless, self-commutating DC motor having a tachogenerator for producing speed control signals.

The prior art of record, taken alone or in combination, fails to teach the construction of a brushless motor as described on independent claim 1, wherein the vertex angle formed by the

Application/Control Number: 09/701,226

Art Unit: 2834

two extension lines along centers of the winding bundles is equal to the angle formed by the two

Page 3

extension lines extending along both ends of the each magnetic polarity of said rotor.

Dependent claims 2-5 are considered allowable by their dependence on allowed

independent claim 1.

Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Pedro J. Cuevas whose telephone number is (703) 308-4904. The

examiner can normally be reached on M-F from 8:30 - 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Nestor R. Ramírez can be reached on (703) 308-1371. The fax phone numbers for

the organization where this application or proceeding is assigned are (703) 305-3432 for regular

communications and (703) 305-3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-0956.

Pedro J. Cuevas October 16, 2003

> Nicholas Ponomarenko Frimary Examiner

treef-

Technology Center 2806